

WEAR CONTAMINATION **FLUID CONDITION**

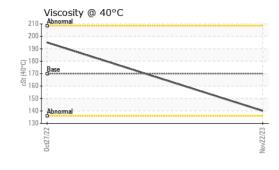
NORMAL NORMAL NORMAL

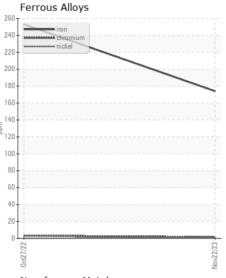


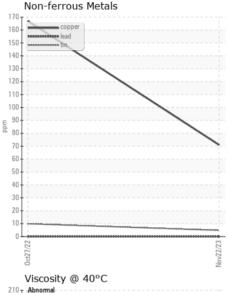
LIEBHERR L586 069044-1761

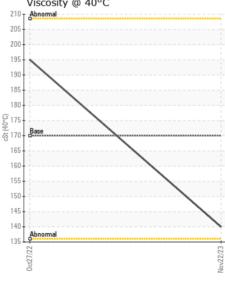
Component Front Differential

LIEBHERR GEAR BASIC 90 LS	(GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LH0267643	LHMC155715	
	Sample Date		Client Info		22 Nov 2023	27 Oct 2022	
	Machine Age	hrs	Client Info		1985	760	
	Oil Age	hrs	Client Info		0	760	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>1500	174	253	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	2	3	
	Nickel	ppm	ASTM D5185m	>4	<1	0	
	Titanium	ppm	ASTM D5185m	>5	0	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>20	1	4	
	Lead	ppm	ASTM D5185m	>5	0	0	
	Copper	ppm	ASTM D5185m	>200	71	167	
	Tin	ppm	ASTM D5185m	>10	5	10	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	MODER	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>60	15	29	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	2	
	Water		WC Method	>.2	NEG	NEG	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	10	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	0	7	2	
	Barium	ppm	ASTM D5185m	0	0	2	
	Molybdenum	ppm	ASTM D5185m	0	0	<1	
	Manganese	ppm	ASTM D5185m	0	20	56	
	Magnesium	ppm	ASTM D5185m	<1	0	2	
	Calcium	ppm	ASTM D5185m	<1	13	14	
	Phosphorus	ppm	ASTM D5185m		1137	2370	
	Zinc	ppm	ASTM D5185m		23	56	
	Sulfur	ppm	ASTM D5185m		21209	33107	
	Visc @ 40°C	cSt	ASTM D445	170	140	195	











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10831885

: LH0267643 : 06060503 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 12 Jan 2024 Diagnosed : 16 Jan 2024 Diagnostician : Don Baldridge

MIDDLE RIVER MARINE

1771 SOUTH TORRENCE AVE CHICAGO, IL US 60617

Contact: Scott Molitor scottmolitor@gomiddleriver.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: MIDCHIIL [WUSCAR] 06060503 (Generated: 01/16/2024 15:08:55) Rev: 1

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